R. C. FAY.

Skeleton Wire-Frame for Supporting Coils of Wire.

No. 220,065. Patented Sept. 30, 1879.

FIG. 2.

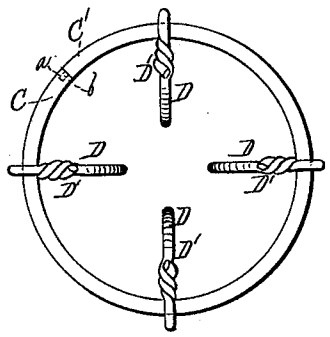
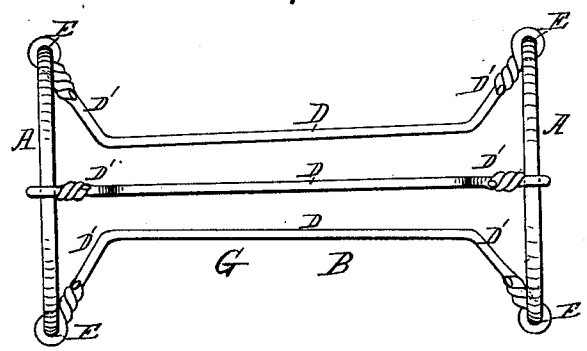


FIG. 1.



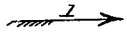


FIG. 4.

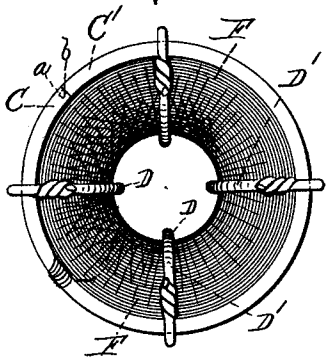
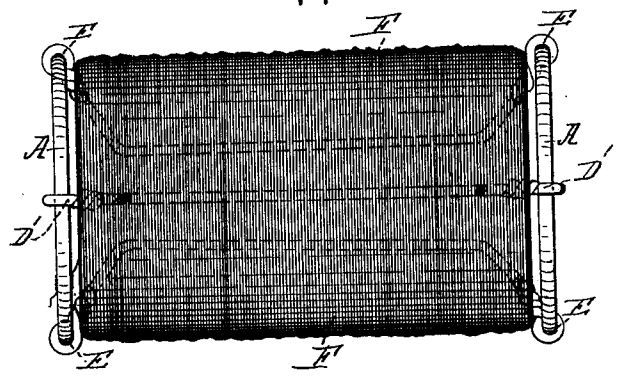


FIG. 3.



Witnesses:

Edwin E. Moore

Thos. H. Dodge

Inventor:

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UNITED STATES PATENT OFFICE

RIMMON C. FAY, OF LINCOLN, RHODE ISLAND.

IMPROVEMENT IN SKELETON WIRE FRAMES FOR SUPPORTING COILS OF WIRE.

Specification forming part of Letters Patent No. **220,065**, dated September 30, 1879; application filed June 9, 1879.

To all whom it may concern:

Be it known that I, RIMMON C. FAY, of Lincoln, in the county of Providence and State of Rhode Island, have invented an improved article of manufacture, consisting of a skeleton wire frame for supporting a coil of wire for use in binding grain with automatic harvester-binders, as will be hereinafter more fully described; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a side view of the skeleton wire frame which supports the coil of binding-wire. Fig. 2 represents an end view of the parts shown in Fig. 1, and Figs. 3 and 4 represent the same views of the parts shown in Figs. 1 and 2 after the coil of binding-wire has been wound thereon.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

In the drawings, the parts marked A A are the wire heads of the skeleton wire frames B, and they are made in circular form, with their abutting ends C C′ locked together, as indicated in Figs. 2 and 4 of the drawings—that is, the end C has a hole or socket, *a*, formed in its end, while the end C′ is provided with a tenon, *b*, to fit the hole *a* in the end C, as fully indicated in dotted lines, Figs. 2 and 4.

The heads A A are united by means of wire supporting arms D, the ends D′ of which are bent outward at an angle, and then returned and twisted upon themselves, to form eyes E for the reception of the head-rings A A, and the head-rings A are inserted in the eyes E by springing the ends C C′ apart and slipping the eyes E thereon. While the coil of wire F is being wound upon the skeleton wire frame B, the latter is supported by a grooved bobbin of peculiar construction, and which bobbin forms the subject-matter of a separate application for Letters Patent filed of even date herewith.

The skeleton-frame B holds the coil of wire F in a secure and compact manner, and can be made very cheaply and perfectly.

The ends C C′ of the heads A may be brazed together, if preferred, after the eyes E of the parts D have been slipped on, as indicated in Figs. 1 and 2 of the drawings, in which case the ends C C′ could be made without the holes and tenons *a* and *b*.

Any number of arms D may be employed; but I find that four or five answer the purpose very well.

One end of the barrel part G is made a little smaller than the other, a gradual taper being formed from end to end of the coils of wire F.

What I claim as my invention, and desire to secure by Letters Patent, as an improved article of manufacture, is—

A skeleton wire frame, B, for receiving and holding binding-wire, consisting of the heads A A, supporting-arms D, having the bent ends D′, provided with eyes E, substantially as and for the purposes set forth.

RIMMON C. FAY.

Witnesses:
EDWIN E. MOORE,
THOS. H. DODGE.